

AMENDMENT TO THE CLAIMS, COMPLETE LISTING OF CLAIMS
IN ASCENDING ORDER WITH STATUS INDICATOR

Claims 1-54 (Canceled).

55. (Currently Amended) A process for making hybrid yeast cells with recombined DNA sequences comprising:

(a) mutating a first set of haploid yeast cells to render defective the enzymatic mismatch repair system of the first set of cells and introducing a first DNA sequence into the first set of cells;

(b) mutating a second set of haploid yeast cells to render defective the enzymatic mismatch repair system of the second set of cells and introducing a second DNA sequence into the second set of cells wherein the second DNA sequence is partially homologous to the first DNA sequence and has up to 30% base mismatches with the first DNA sequence;

(c) mixing the first and second sets of cells to form diploid yeast cells;

(d) culturing the diploid yeast cells to effect meiosis of the diploid yeast cells wherein said meiosis results in hybrid yeast cells comprising a recombination of the partially homologous first and second DNA sequences, ~~to make hybrid yeast cells~~; and

(e) recovering the hybrid yeast cells with recombined DNA sequences.

56. (Canceled).

2 57. (Currently Amended) A process for obtaining ~~hybrid~~ recombined DNA sequences comprising:

(a) conducting the process according to claim 55 to make hybrid yeast cells; and

(b) isolating ~~hybrid~~ recombined DNA sequences of the hybrid yeast cells.

3 58. (Currently Amended) The process according to claim 57, wherein the ~~hybrid~~ recombined DNA sequences comprise a gene.

4 59. (Currently Amended) A process for obtaining proteins encoded by ~~hybrid~~
recombined DNA sequences comprising:
(a) obtaining the ~~hybrid~~ recombined DNA sequences according to the process of claim
57; and
(b) expressing proteins encoded by the ~~hybrid~~ recombined DNA sequences.

5 60. (Currently Amended) The process according to claim 59, wherein the ~~hybrid~~
recombined DNA sequences comprise a gene.

Claims 61-63 (Canceled).